FARM AND GARDEN.

RESULTS OF THE LATEST INVES-TIGATIONS OF SWINE DISEASE.

How Many Are Deceived as to Kidney Eating the Refuse of a Slaughter House. Practical Men Testify.

G. Stuart & Son contribute to The Ohio Farmer some valuable suggestions gained by their experience with hogs. Practice, they say, has taught us the great necessity of being thoroughly posted in the symptoms in order to be able to prescribe treatment and cure. No. 1, in the illustration given herewith, represents the thology has taught us to see the fallacy parasite supposed to cause the loss of the supposed cases. Furthermore, there is not one person in one hundred that ever saw a kidney worm; microscopy alone can decide and determine the presence of these parasites.

The animal in the illustration was suppesed to be suffering from their presence, but as we had the opportunity of an ex-amination of the kidneys, we are able to give the real truth of the case. The hog was slaughtered in our presence, and we removed both kidneys, in order to submit them to the microscope. We found myriads of triching and also cysts imbedded in the kidney tissue. Lad all the triching been encysted, the hog would have shown no trouble in his movements, but those that were free were the parasites that caused the trouble. The owner being present at the examination decided that every part of the carcase should be minutely examined, and we found triching in every stage.

On inquiry we found that the pigs were purchased from a slaughter house where all offal of animals was thrown to them. We had occasion afterward to visit the place where the pigs were bought, and found the intestines of several animals, sheep's heads, lungs and blood, put where the hogs had the best chance to become infected with the parasites. Any hog affected with triching will show the same symptoms, and great care should be taken about using any kind of pork that may have been affected in that way. We have seen hogs that were so fat that they dragged their hind legs when they were forced to move. The owner of such should not think that they are models of perfect health, as they are in a doubtful

No. 2 represents a case of paralysis of the lumbar muscles, caused by injury or exposure. A farmer in cleaning out the pen placed a shovel on the loins of a hog very lightly, he said, but from that moment afterward the pig walked with his back humped as if he had disease of the kidneys. No one should strike a hog across the back, as no domestic animal is so easily injured permanently as the

No. 3 represents a case of tape worm in the small intestine and stomach of the The owner stated that all the hogs pig. The owner stated that all the hogs did well till they had the run of the field; then they did not do well, although well who drew the design claims that it has fed. They were always hungry, but they did not fatten. Hogs infested with is a bridge at each end for a driveway, tape worms are never satisfied, but devour anything they can, even the excre-ments of any animal. The tape worms that infest the pigs are Tænia maculata and Tænia expasia. One of our speci-mens measures twenty-two feet. The medicines to cause their expulsion are kousso, oil of turpentine, ground root of male fern, and areca nut. Santonine can be well powdered and given in the food, mixed with molasses. It is the best mixture that can be given, as it does not cause nausea, like oil, and has no flavor of medicine.



DISEASES OF HOGS No. 4 represents a case of indigestion. The owner said that his hogs had some disease about them, and were affected very strangely. They did not care to leave their nests to feed, unless forced. and then they squealed as if suffering from pain. When they came to the trough they would take a mouthful as if they were hungry, crouch, run backward, and fall over, but in fifteen min utes would return to the food and eat as if nothing was the matter. That is a clear case of indigestion, and when slaughtered while showing these symp-toms, the inside linings of the pigs stomachs and part of the colon were found coated with a dry substance like brown flour. Feeding too fine meal caused the trouble. Whenever plenty of vegetable diet is given we never find such symptoms. A rush of blood to the head was caused by impeded circulation in the system. This teaches us the need

of albuminous food of a laxative nature.

Peaches in the Middle South. A complete history of peach culture in Maryland, in a recent bulletin of the agricultural department, shows it generally has been successful and more profitable than other farm industries. Instances are not uncommon where the | these doors the linter can be closed tight yearly profits have exceeded the whole cost of the farm, ranging from \$100 to \$200 per acre. Yearly averages of \$100 per acre for ten years are mentioned, the result of skill, industry and capital. Whoever understands peach culture and attends to it well, does well. The soil and climate of Southern Maryland are in all respects well adapted for the production of the peach. -Michigan Farmer.

ably below an average.

FOOT ROT IN SHEEP.

Directions for Treating This Common and Trepblesome Disease.

About the symptoms of foot rot we need not say much; these are unmistakable. There is a speedy loss of condition, due both to constitutional disturbance and to inability to walk in search of Worm-Triching Contracted by Hogs food. No time ought to be lost in attending to the animal who exhibits any sign of lameness, however slight.

The remedies for foot rot are very varied, and there are dozens of agents, either alone or in the combination, that are vaunted as cures, and no doubt correctly so. The selection of a remedy is not so difficult as to get it properly applied. They resolve themselves into two classes, astringents and caustics, and generally too free use is made of the latsymptoms of kidney worms. Helmin- ter as well as of the paring knife. It is most essential that diseased structure, of many cases of kidney worms. The such as loose horn, should be cut away. power, and to paralyze the muscles of to pus, but no more of the sensitive and also that free vent should be given the loins, is not present in 1 per cent. of structure of the foot should be exposed than is absolutely necessary, because there are sure to be fungus growths sp-inging from parts denuded of horn, and the free use of the knife thus gives rise to the necessity for the free use of caustics or the actual cautery.

Removal to a higher, dryer and barer pasture is a most useful step, or, if this is not practicable, the worst cases should be put on dry straw in sheds or yards. In some instances a poultice, either of bran or boiled mashed turnips or carrots, proves most useful. "Taken all round, says a leading English veterinary sur geon, "there is no better remedy than sulphate of copper-common 'blue stone' or 'blue vitriol'-and most dressings are largely composed of this agent. In mild cases a saturated solution of the sulphates of copper and zinc poured into the affected parts is most efficient. Equal parts of butyr of antimony and com-pound tincture of myrrh also make a good dressing when applied with a feather or brush to the diseased parts. In severe cases the strong mineral acids are used, especially the nitric, with quicksilver dissolved in it."

On farms where the disease is prevalent the sheep are periodically driven through shallow troughs containing a solution of arsenic and soda, and if the feet are carefully pared and the attention is constant, this is one of the best methods of prevention yet devised; but where the disease is already established the individual method of treatment offers the best prospect of success. We may sum up the treatment thus: Get the sheep under shelter or in a dry pasapply a liquid dressing varying in strength with the progress the discount strength with the progress the disease has made and the necessity for removing fungus granulation. Follow this up by using an ointment every day com posed of one part boric acid and seven parts of lard, and adopt every possible means for keeping the feet clean and dry, which is very much more easily

A Convenient Barn. In farm economy few things are more conducive to, thrift and comfort than a convenient barn. Fig. 1 shows a barn situated on a hillside, with an incline of seven feet in forty to the west. The one only one of which, however, is shown in the illustration.



FIG. 1-OUTSIDE VIEW OF BARN. On the right, as you enter the main door, the bays extend down to the ground nine feet. Under the main floorway the sheep are kept. Under the bridge each end is open, to give the sheep plenty of light and air, and in stormy weather the doors are closed. On the left of the main floorway is the cow linter, and, beneath, the pig pen. The arrangement will be more readily understood from the illustration, Fig. 2.

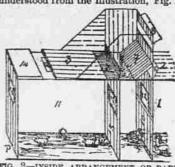


FIG. 2-INSIDE ARRANGEMENT OF BARN, 1. Sheep pen. 2. Barn floorway. 3. Standing floor in the linter. 4. Cows' manure. 5. Iron strap used instead of stanchion. 6. Tie chain. 7. A trough filled with dirt or sawdust for the animals' front feet to stand on, thus preventing slipping. 8. Cows' feed door, 9. Sheeps' feed door, 10. Sheep racks, 11. Pip pen. 12. Windows used for cleaning sheep pens and pig.pens. 13. Tight partition. 14. Walk behind the cows. 15. Scuttle for cleaning out manure. It will be noticed that the door through

which the sheep are fed opens downward, and does not conflict with the cows' feed door, which lifts upward. By having in cold weather, and the cattle will keep

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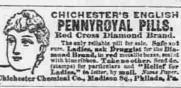
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